1960

. Date: 312140

Regional Administrator USEPA 230 South Dearborn Chicago, Illinois 60604 RECEIVED
WMD RCRA Comp
RECORD CENTER
1-27-93

Re: Soft Hanner Demonstration	and Certification for	
BASF Corp.	alle avenue 48192 Phone Be	10 064197742
Aldress: 1609 Bid	dle avenue	
Wyandolk, MI	48192 Phone Bo	(313) 246 - 6836
Dear Sir:		
hazardous wastes which do not a	reet treatment standards specified. L-haumer" wastes (first- and	hibit the land disposal of listed d by the US EPA. 40 CFR 268.8(a) Second-Ihird wastes for which no
(1) Nake a good faith facilities which use environmental benefit,	effort to locate and contrac the practically-available techno and	t with treatment and recovery logy which yields the greatest
(2) Submit appropriate docu	usentation of that effort to the	EPA Regional Administrator.
This letter is intended following waste streams:	to serve as a soft-hammer demons	tration and certification for the
EPA Waste Code & Description	EPA Waste Code & Description	EPA Waste Code & Description
U044 Chloroform		HS EDA DECONDO SOU
UOPO Methylanelhlor.d.	2	US EPA RECORDS CENTER REGION 5
U/S/ Mercury		1004615
U221 Tolvene Diamine	·	
1123 Talsey Discours	ma te	

All of the soft-hanner waste streams moted above are "U" or "P" code hazardous wastes which, by definition, are connercial chemical products intended to be discarded. These wastes were generated as the result of a laboratory cleanout operation conducted on our behalf by Clean Marbors of Matick, Inc. Mone of the wastes included above are spent solvent (FOO1-FOO5) or dioxin (FO20-FO28) wastes.

Clean Marbors of Matick, Inc. has contacted the following hazardous waste treatment and recovery facilities on our behalf and, based on those inquiries, determined that incineration is the best practically-available treatment method for above-described waste streams. In no case will any of the above-listed wastes (or residues) be disposed or treated in a land disposal unit in excess of the California List prohibition levels.

- 1. Clean Marbors of Braintree, Inc.
 385 Quincy Avenue
 Braintree, MA 82184 (617) 849-1807
 Contact: Doug Lanich (7/14/89): "All
 material sent to this facility
 are organic materials (mostly
 solvents). This material is
 blended for incineration which
 is the best available method of
 treatment for this material."
- 3. EBSCO, Inc.
 American Gil Road
 El Dorado, AR 71730 (501) 223-4160
 Contact: Eva Dodd (7/14/89): "All
 material is incinerated on
 site. Incineration is the bestavailable technology for the
 destruction of organic material."
- 5. Tricil, Ltd.
 1829 Allansport Road
 Thorold, Ont., CAMADA (416) 227-7872
 Contact: Gregg Reanelgas (7/14/89):
 "Material is blended for incineration offsite. Monincinerables are neutralized and solidified which significantly reduces the toxicity and hazards of that material."

- 2. Irade Waste Incineration 7 Nobile Avenue Sauget, It 62201 (618) 271-2804 Contact: Dennis Warchol (7/14/89): "Incineration is the practically available technology which yields the greatest environmental benefit. The waste is principally organic residues which are best destroyed by incineration"
- 4. TherwalkER
 454 \$. Anderson Road
 Rock Hill, \$C 29730 (803) 329-9690
 Contact: Hickie Humphries (7/14/89):
 All material is incinerated on
 site in a fixed hearth kilm.
 All ash is sent to secure chemical
 landfill. Incineration is the best
 practical treatment technology for
 the destruction of organic
 material."
- 6. CVH/SCA Chemical Services
 11700 S. Stoney Island Avenue
 Chicago, IL 60617 (312) 646-5700
 Contact: Bruce Marti (7/14/89): "The
 soft-hauser waste that is accepted
 at this facility is incinerated
 which is the best-available
 treatment technology for the
 destruction of organic material and
 residues."

Certification

"I certify under penalty of law that the requirements of 40 CFR 268.8 (a) (1) have been set and that I have contracted to treat sy waste (or will otherwise provide treatment) by the practically available technology which yields the greatest environmental benefit, as indicated in sy demonstration. I believe that the information submitted is true, accurate, and complete. I as aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

ADAM (BICKEL
Base (Print)

LASTE (DOEDWATOR

Tith

Welly (Keful

Signature

(IF APPLICABLE)
This soft-hanger demonstration/certification replaces previous notice(s) submitted to EPA on the following date(s):



CERTIFIED MAIL - RETURN RECEIPT REQUESTED P 401 235 629

March 26, 1990

WASTURANCE A DIVISION EPA. REGION V

Mr. Valdas V. Adamkus USEPA Region V Region V Administrator 230 S. Dearborn Street Chicago, IL 60604

Re: Soft Hammer Demonstration and Certification Documents

Dear Mr. Adamkus:

Enclosed you will find the required "soft hammer" demonstration and certification forms for the chloroform (U044), methylene chloride (U080) and mercury (U151) waste streams.

If any further information is required, please contact me at (313) 246-6836.

Sincerely,

Adam C. Bickel

Ecology Services Technologist I

C. Bickel

acb enc.

cc: State of Michigan DNR
Waste Management Division
505 W. Main Street
Northville, MI 48167

1500

December 8, 1989

OFFICE OF RCRA
Waste Management Division
Waste Management U.S. EPA, REGION V
U.S. EPA, REGION V

MID 064 197 747

1/26/93

RECORD CENTER

Mr. Valdas V. Adamkus USEPA Region V Region V Administrator 230 S. Dearborn Street Chicago, IL 60604

Re: Soft Hammer Demonstration and Certification Documents

Dear Mr. Adamkus:

Enclosed you will find the required "soft hammer" demonstration and certification forms for toluenediamine (U221) and toluene diisocyanate (U223) first-third listed waste streams.

If any further information is required, please contact me at (313) 246-6836.

Sincerely,

Adam C. Bickel Waste Coordinator

acb enc.

cc: State of Michigan DNR
Waste Management Division
505 W. Main Street

Northville, MI 48167

First & Second Third Lan Ban Wastes Demonstration and Certification Of Practically Avaliable Treatment For This Waste Which Yields The Greatest Environmental Benefit "Soft Hammer" Wastes

Company Name Address

I. Identification Information

land ban rules.

EPA ID No. MIB 664 197742 Manifest No. MR-278538 Date 12-8-89
Completed By ADM C Bruse Title WASTE COORDUS
This shipment as referrenced by the Manifest Number contains the waste(s) which correspond to the following USEPA Hazardous Waste Number(s): UAA/ UTCS. Additional Waste Numbers may be listed on the manifest.
IL Demonstration
In order to determine that Name of the specific waste treatment technology choosen or required is the practically available technology which yields the greatest environmental benefit, I contacted the facilities and officals listed below:
1. Official BETH HERRISON Title CUSTOMER SERVICE REP Company ENSCO Address //2/ Beyce RE SUITE 406 PITTSBURGH, PH 1524/ Telephone No. (4/2) 94/ - 6/00 Date of Contact 1/-18-09 2. Official Title Company Address Telephone No. Date of Contact
3. Official Title Company Address Telephone No. Date of Contact

Note: Part II need only be completed with the first shipment of waste regulated by the

III. Certification

I certify under penalty of law that the requirements of 40 CFR 268.8 (a)(1) have been met and that I have contracted to treat my waste (or will otherwise provide treatment) by the practically available technology which yields the greatest environmental benefit, as indicated in my demonstration. I believe that the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name - ADM C Broker signature

ાં કેલ્પિક કેલ્પ કેલ જો છેલ્પ કેલ્પ જો આપણ કેલ્પ ક

بريا مرود والأور مرود والمراد



LAND DISPOSAL RESTRICTION NOTIFICATION FORM

INSTRUCTIONS

This Land Disposal Restriction Notification Form has been specifically designed to provide ENSCO information required to treat, store, or dispose of your waste.

Hazardous waste regulations (40 CFR 268) require generators to provide a land disposal restriction notification with each manifest used for shipment of a restricted waste. This form has been designed to combine the notification requirements for all restricted wastes onto one form. For a shipment of only one category of restricted waste, read the instructions and complete the section of the form applicable to that waste. For shipments involving multiple categories of waste (i.e., Spent Solvents, California List, Hard Hammer, and/or Soft Hammer) complete only those sections applicable to the categories of waste on the shipment.

Answers must be provided for all questions/items for each applicable category of restricted waste on the attached form. Remove the instruction pages and print (ink only) or type the answer or mark the appropriate blanks so that all pages are clearly legible. If a particular category of waste is not applicable to your waste stream(s), you must signify by leaving that section blank. If additional information is submitted to complete an answer, indicate on the form that the additional information is attached as Attachment 1, Attachment 2, etc. This completed form and any attachments must accompany the manifest with the shipment.

SPECIAL INSTRUCTIONS

Hazardous waste regulations require the items set orth below be provided to the TSD.

PART I - GENERATOR INFORMATION

Manifest number - indicate the manifest number for applicable waste steam(s) listed on this form. If additional manifests are required for the shipment, each manifest requires its own separate Land Disposal Notification Form.

PART II - NOTIFICATION

A. Spent Solvent Wastes

If you are the generator of restricted Spent Solvent Waste(s) as specified under 40CFR 268.30, shipping to ENSCO, please mark the blank identifying that the Spent Solvent Notification is applicable to your waste stream(s) listed on the manifest.

Waste Code — In the space provided, list all USEPA Hazardous Waste Codes applicable to the Restricted Spent Solvent wastes as shown on the manifest.

Identification of waste — Mark the appropriate blank describing the method you used to determine that your waste stream(s) is restricted from land disposal. Note: If waste analysis data was used to determine the applicability of land disposal restrictions, copies of that data must be attached.

B. California List Wastes

If you are the generator of restricted California List Waste(s) as specified under 40CFR 268.32 shipping to ENSCO, please mark the blank identifying that the California List Notification is applicable to your waste stream(s) listed on the manifest.

Waste Code — In the space provided list all USEPA Hazardous Waste Codes applicable to the Restricted California List wastes as shown on the manifest.

Identification of waste — Mark the appropriate blank describing the method you used to determine that your waste stream(s) is restricted from land disposal. Note: If waste analysis data was used to determine the applicability of land

disposal restrictions, copies of that data must be attached.

C. Hard Hammer Wastes

If you are the generator of restricted waste(s) identified under 40CFR 268.33 and 268.34 where the treatment standard is expressed as a Constituent Concentration in the Waste or an Extract, or as a specific treatment technology, please mark the blank identifying that the Hard Hammer notification is applicable to your waste stream(s) listed on the manifest.

Waste Code — In the space provided, list all USEPA Hazardous Waste Code applicable to the Restricted Hard Hammer wastes as shown on the manifest. If you are shipping more than one Hard Hammer waste on this manifest, please provide this information on the Hard Hammer Continuation Attachment.

Identification of waste — Mark the appropriate blank describing the method you used to determine that your waste stream(s) is restricted from land disposal. Note: If waste analysis data was used to determine the applicability of land disposal restrictions, copies of that data must be attached.

Where a treatment technology (i.e., incineration) is expressed as the treatment standard, specify the technology in the space provided.

Where treatment standards are expressed as a Constitutent Concentration in the Waste (CCW) or Extract (CCWE) fill in the appropriate standards. For specific treatment standards, refer to 40CFR Subpart D. If the manifest includes more than one Hard Hammer waste, please provide the required information on the Hard Hammer Continuation Attachment.

D. Soft Hammer Wastes

If you are the generator of restricted waste(s) gentified under 40CFR 268.33 and 268.34 where no treatment standards are established, mark the blank identifying that the Soft Hammer Notification is applicable to your waste stream(s) listed on the manifest.

Waste Code — In the space provided list all USEPA Hazardous Waste Codes applicable to the Restricted Soft Hammer wastes as shown on the manifest. If you are shipping more than one Boft Hammer waste on this manifest, please produce this information on the Soft Hammer Continuation Attachment.

dentification of waste — Mark the appropriate mank describing the method you used to determine that your waste stream(s) is restricted from and disposal. Note: If waste analysis data was used to determine the applicability of land disposal restrictions, copies of that data must be attached.

each individual waste stream in this cateofy, as required by 40CFR 268.8, you must atconcopies of a valid Certification and Demonfiction that you have submitted to your USEPA
regional Administrator. Note: The Demonstraon need only accompany the first shipment of
the waste stream to ENSCO. Subsequent shiprents require the Certification and Notificiation
only. Ensco does not provide a certification and
demonstration form for Soft Hammer wastes as
the certification and demonstration is the full
asponsibility of the generator to establish and
domit to the regional administrator.

TART III - CERTIFICATION OF NOTIFICATION

instorm must be signed by the person respon-. Die for shipments of the waste.

500 BELIEVES INFORMATION IN THIS TIRM REPRESENTS AN ACCURATE INTER-RETATION OF THE COMPLEX RULES DIS-JOSED, GENERATORS OF HAZARDOUS STE WHICH MAY BE AFFECTED BY THE AND DISPOSAL RESTRICTIONS ARE HOURED TO PROVIDE NOTIFICATION TO THE TREATMENT STORAGE AND DISPOSAL CILITY OF THE APPROPRIATE TREAT-MENT STANDARDS FOR THEIR WASTE. 148CO WILL NOT BE RESPONSIBLE FOR ISINTERPRETATIONS OF THESE RULES THE GENERATORS. THEREFORE. EMERATORS SHOULD CONSULT WITH HEIR LEGAL AND ENVIRONMENTAL -FFS TO ASSURE REGULATORY MPLIANCE.



LAND DISPOSAL RESTRICTION NOTIFICATION FORM

	RAL INFORMATION				
GENERATO	TOR NAME BASE - WYANDOTTE M	ANIFEST NO. AR - 27 8 538			
ADDRESS .		OMPLETED BY ADM C BICKEL			
	1 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TLE LLASTS COORDILLATOR			
USEPA ID I	A . 1	ATE 12/8/89			
II. NOTIF	FICATION				
of certain	m is submitted to ENSCO, Inc. in accordance with regulation ain restricted hazardous wastes. In accordance with the riate blank(s) below outlining how my waste(s) must be ma	e requirements specified above, I have checked the			
	A. SPENT SOLVENT	WASTES			
(check \	This shipment, as referenced by the above manifest nu Hazardous Waste Code(s)				
(here)		. These wastes are restricted from land disposal			
	as specified under 40CFR 268.30 and are identified as Spent Solvent Wastes. The constituent composition listed above is based upon:				
	waste analysis data (attached) or	•			
	my thorough knowledge of the waste stream.				
	The above referenced waste(s) must be treated to me Concentration in the Waste Extract as outlined in 40CFF				
	Table CCWF-	-Constituent			

Table CCWE—Constituent Concentrations in Waste Extract

	Concentration	(in mg/l)	
	Wastewaters	All other	
F001—F005 spent solvents	containing	spent	
	spent	solvent	
	solvents	wastes	
Acetone		0.59	
n-Butyl alcohol	5.0	5.0	
Carbon disulfide	1.05	4.81	
Carbon tetrachloride	.05	.96	
Chlorobenzene		.05	
Cresols (and cresylic acid)	2.82	.75	
Cyclohexanone		.75	
1,2-Dichlorobenzene	.65	.125	
Ethyl acetate		.75- ·	
Ethylbenzene	.05	.053	
Ethyl ether		.75	
Isobutanol		5.0	
Methanol		.75	
Methylene chloride	.20	.96	
Methylene chloride (from the pharma-	}	}	
ceutical industry)	12.7	.96	
Methyl ethyl ketone	0.05	0.75	
Methyl isobutyl ketone	0.05	0.33	
Nitrobenzene	0.66	0.125	
Pyridine	1.12	0.33	
Tetrachloroethylene	0.079	0.05	
Toluene		0.33	
1,1,1-Trichloroethane	1.05	0.41	
1,1,2-Trichloro-1,2,2-Trifluoroethane	1.05	0.96 `	
Trichloroethylene		0.091	
Trichlorofluoromethane		0.96	
Xylene	0.05	0.15	

Additional restricted wastes (California List, Hard Hammer, Soft Hammer) may be listed on the manifest with notifications for those wastes being listed elsewhere on this form.

 '	B. CALIFORNIA LIST WASTES
neck 🔪	This shipment, as referenced by the above manifest number, contains waste(s) corresponding to USEPA Hazardous Waste Code(s)
nere /	. These wastes are restricted from land disposal under 40CFR 268.32 and are identified as California List Waste. The constituent compositions used for identification are based upon:
	waste analysis data (attached) or
	my thorough knowledge of the waste stream.
	The above referenced waste(s) must be treated to meet the treatment standards as set forth in 40CFR 268 Subpart D, or where no treatment standard exists, the waste must be treated in accordance with the requirements specified in 40CFR 268.32 as follows:
	Liquid hazardous wastes containing the following contaminants must be treated to at least the specified levels or must be rendered non-liquid per the paint filter test.
	(1) Free cyanides at concentrations greater than or equal to 1000 mg/l
	(2) One (or more) of these metals (or elements) at concentrations greater than or equal to those specified below:
	 a. Arsenic and/or compounds (as As) 500 mg/l; b. Cadmium and/or compounds (as Cd) 100 mg/l; c. Chromium VI and/or compounds (as CrVI) 500 mg/l; d. Lead and/or compounds (as Pb) 500 mg/l; e. Mercury and/or compounds (as Hg) 20 mg/l; f. Nickel and/or compounds (as Ni) 134 mg/l; g. Selenium and/or compounds (as Se) 100 mg/l; h. Thallium and/or compounds (as Th) 130 mg/l.
	(3) Liquid hazardous wastes having a pH less than or equal to two (2.0).
	(4) Wastewaters containing Halogenated Organic Compounds (HOC's) less than 1000 mg/l; or for liquids and non-liquid HOC non-wastewaters greater than 1000 mg/l. The waste must be incinerated in an incinerator operating in accordance with 40CFR 264 and 265 or in a boiler or industrial furnace.
	 Liquid hazardous wastes containing PCB's at concentrations greater than or equal to 50 ppm and less than 500 ppm must be incinerated in accordance with 40 CFR 761.60 or 761.70. Incineration of these wastes must also be in accordance with 40CFR 264, 265 and 266.
	Additional restricted wastes (Solvent, Hard Hammer, Soft Hammer) may be listed on the manifest with notifications for those wastes being listed elsewhere on this form.
	C. HARD HAMMER WASTES
eck)	This shipment, as referenced by the above manifest number, contains waste(s) which correspond to USEPA Hazardous Waste Code(s)
16 /	40CFR 268.33 and 268.34.
	The above referenced waste(s) must be treated to the appropriate treatment standard as set forth in 40CFR 268.41 268.42, and/or 268.43. The applicable treatment standard for each waste code is listed below or provided or additional attached sheets:
	USEPA Hazardous Waste Code
	The constituent composition used for identification is based upon:
	waste analysis data (attached) or
	my thorough knowledge of the waste stream.
	The treatment standard is expressed as

(Specify treatment technology)

	the Waste (CCW) or Extra	standards, specify by a CWE). Note: Certain v	vaste co	whether the des may ha	dard is a Constitutevv	Jent Concentra	····/
	(Waste Code	_ Non-Wastewater e)		•		ncentrations or mg/kg	
		C	ccw c	CWE		mg/kg	mg/l
							
		Wastewater				ncentrations	
	(Waste C	ode)	•		as .	mg/l	
					· · · · · · · · · · · · · · · · · · ·	· .	 -
							
	,						
	•						
-							
						·····	
	Additional restricted wastes tions for those wastes being	listed elsewhere on the D. SOFT	his form HAMM	ER WASTE	s		
(check here	This shipment, as referenced ous Waste Code(s)	221, U223				,	
	40CFR 268.33 and 268.34.		·	These was	tes are restricted fro	m land dispos	sal und
	No treatment standards exis	t for the above referen	red wa	ste(s) and t	herefore I have dete	rmined throug	h a god
	faith effort that incineration penvironmental benefit; that the to my regional administrato required by 40CFR 268.8.	rior to land disposal is his waste is the subject	the prac of a vali	ctically ava d Demonst	lable treatment which ration and Certification	ch provides the on that I have s	greate ubmitte
	USEPA Hazardous	Waste Code					ration
1223,	The constituent composition						ration a
1223,	•	used for identificatio	n is bas	ed upon:			ration a
1223,	waste analysis data		n is bas	ed upon:	-·		ration a
1223,	waste analysis data	(attached) or edge of the waste stre	eam.	ed upon:	-·		ration a
1223,	waste analysis data	(attached) or edge of the waste stre	eam.	ed upon:	-·		ration a
1223,	waste analysis data my thorough knowl Associated Demon	(attached) or edge of the waste stre	eam.	ed upon:			ration a
1223,	waste analysis data my thorough knowl Associated Demon	(attached) or edge of the waste stre stration Attached (Y/N)	eam. I)	·	-···		ration a
1223,	waste analysis data my thorough knowl Associated Demon Associated Certific	(attached) or edge of the waste stre stration Attached (Y/N) ation Attached (Y/N) uired for first shipment	eam. I) t of was	te only)	- · Il Soft Hammer was	ste codes liste	
1223,	waste analysis data wy thorough knowl Associated Demon Associated Certification (Copy of demonstration requirements) Please attach Soft Hamme	(attached) or edge of the waste stre stration Attached (Y/N) ation Attached (Y/N) uired for first shipment r Continuation Attach (Solvents, California L	eam. I) t of was ment fo	te only) or additiona d Hammer)			ed on th
l. CEF	my thorough knowlessed Associated Demonstration requirements. Associated Certification (Copy of demonstration requirements). Additional restricted wastes	(attached) or edge of the waste stre stration Attached (Y/N) ation Attached (Y/N) uired for first shipment r Continuation Attach (Solvents, California L listed elsewhere on t	eam. I) t of was ment fo	te only) or additiona d Hammer)			ed on th
I. CER	waste analysis data my thorough knowle Associated Demon Associated Certification (Copy of demonstration requirements) Please attach Soft Hamme manifest. Additional restricted wastes tions for those wastes being	edge of the waste strestration Attached (Y/N) ation Attached (Y/N) uired for first shipment Continuation Attached (Solvents, California Latisted elsewhere on the Continuation attached (Solvents) attached (S	eam. I) t of was ment fo List, Harchis form	te only) or additiona d Hammer)	may be listed on the	e manifest with	ed on the

2220

O: WMD --

October 12, 1988

Mr. Valdas V. Adamkus Region V Administrator 230 S. Dearborn Street Chicago, IL 60604

Subject: Soft Hammer Demonstration and Certification

Documents

Dear Mr. Adamkus:

Enclosed you will find the required "Soft Hammer" demonstration and certification forms.

If any further information is required please contact me at (313) 246-6429.

Sincerely,

Lyman A. Anderson Ecology Supervisor

enclosure

cc: State of Michigan DNR

Waste Management Division

505 W. Main Street Northville, MI 48167 RECEIVED

OCT 17 1988

U. S. EPA REGION 5 OFFICE OF REGIONAL ADMINISTRATOR

From: EPA ID#	BASF Chemical Corporation MID064197742	
	1609 Biddle Ave	
	Wyandotte, MT 48192	
To: Reg	ional Administrator U.S.	E.P.A.
	Mr. Valdas V. Adamkus	
	Region V ILS. E.P.A.	
	230 S. Dearborn Street	·
	Chicago, IL 60604	
Re: Sof	t Hammer Demonstration/Ce	rtification
disposal I have e	restrictions governing t	mental Protection Agency's land the first third schedule wastes, monstration and certification as stream described by:
US EPA H	azardous Waste Code(s):	223
SolidTek	profile number:	127 - 36
Common N	ame:	oluene Diisocyanate
The demo	onstration reflects our le treatment that affor	efforts to locate practically ds the greatest environmental
		such treatment, we have deter-
	at (check one):	
1). No practically avai	lable treatment exists, See
	attached demonstrat further details.	ion, attachments 2 and 3, for
v 5)		
<u>X</u> 2)		available treatment is: D numbers(s) from the attachment
		demonstration, attachments 2,3,
	and 4 for further det	
If any	further information is r	equired, please contact me at:
(313) 24	16 - 6429 (te	lephone number).
	$\alpha \alpha \alpha$	
Tyma	Mendun	(Signature)
_Lyman A	Anderson	(Type or Printed Name)
_ Fcology	Supervisor	(Title)
10/12/88	3	(Date)

SOFT HAMMER DEMONSTRATION - ATTACHMENT 2

_FACII	ITY OWNER/OPERATOR LOCATION	TREATMENT ME) TELEPHONE CONTACT DATE EXPLA	[ON *
1.	SolidTek Systems, Inc. 5371 Cook Road Morrow, GA 30260	Fuels Blending (419) 874-8144 Jeff Huskisson 10/12/88 and Incineration	D
2.			
3.			
4.			

^{* -} EXPLANATION - for no available treatment - insert the number key from Attachment 3.

for available treatment - insert the letter key from Attachment 4.

ATTACHMENT 3

FIRST THIRD "SOFT-HAMMER" DEMONSTRATION No Available Practical Alternative to Land Disposal

Explanation Of Why No Treatment Is Practically Available

	en able to locate practically available treatment or recovery for the waste the cover letter because, (refer to checked items, and any additional comments):
(1)	No recovery facilities have been located which will be able to recover the hazardous constituents of this waste.
(2)	There is no safe and legal treatment or recovery operation which I can perform practically at my site that will appreciably reduce the toxicity or mobility of the hazardous constituents of the waste.
(3)	I have not been treating this waste at my site in the past, using a treatment technology which has been found to appreciably reduce the toxicity or mobility or mobility of the hazardous constituents of the waste.
(4)	Stabilization treatment will not appreciably reduce the toxicity or mobility of the hazardous constituents of this waste.
5)	Incineration, thermal oxidation or other destruction technologies will not appreciably reduce the toxicity or mobility of the hazardous constituents of the waste.
(6)	I have examined the possibilities of recovery/recycling, incineration, other destruction technologies, and stabilization, in that order or preference, I have not been able to locate any such treatment facilities that will accept this waste.
(7)	The cost of treatment, shipment and disposal at the treatment/recovery facilities that have been located is greater than or equal to twice the cost of shipment and disposal at the RCRA landfill.

Additional Comment	s:
--------------------	----

(8) ___

ATTACHMENT 4

FIRST THIRD "SOFT-HAMMER DEMONSTRATION

Soft-Hammer Waste For Which Alternative Treatment or Recovery Has Been Located

- Rotary Kiln Incineration is a practically available technology that yields the А greatest environmental benefit. This waste is principally organic residues which are best destroyed by incineration. Liquid Injection Incineration is a practically available technology that yields В the greatest environmental benefit. This waste is principally pumpable organic residues which are best destroyed by incineration. Fuels Blending is a practically available technology that yields the greatest C environmental benefit. This waste has a heating value greater than or equal to 5,000 BTU per pound and can be best reused as a hazardous waste fuel. A combination of Fuels Blending, and/or Rotary Kiln or Liquid Injection D is a practically available technology that yields the greatest environmental benefit. This is due to the properties of my waste which may vary slightly, from one load to the next. Solid nondispersible residues will need to be incinerated; but the pumpable or dispersible portions may be blended for hazardous waste fuels usage (when the BTU's, chlorine, ash, etc. are within the required ranges); or else incinerated. Chemical Precipitation (with filtration or decanting) is a practically available E technology that yields the greatest environmental benefit. This should reduce the toxicity/mobility of the hazardous constituents by reducing the toxic volume of the waste. F Filtration is a practically available technology that yields the greatest environmental benefit. This should reduce the toxicity/mobility of the hazardous constituents by reducing the toxic volumes of the waste. Stabilization is a practically available technology that yields the greatest G environmental benefit. Stabilization will reduce the mobility of the hazardous constituents of the waste. I have examined recovery and destruction technologies and found that they were not practically available for the following reason(s): Chemical oxidation is a practically available technology that yields the greatest H environmental benefit. Chemical oxidation will reduce the toxicity of hazardous constituents in the waste. This waste is not suitable for incineration or fuels due to: the low percentage of hazardous organic constitutents presents, the low heating value of the waste, the high percentage of inorganic constituents present, the lack of located available capacity of incineration or fuels blending facilities. This waste is not suitable for recovery due to:
 - The hazardous constituents are present in concentations that make recovery technologically impossible.

 The hazardous constituents are present in concentrations that make recovery economically infeasible.

 No recovery facilities were located that could treat this type of waste.

 P No recovery facilities were located that had capacity to treat this type of waste.
 - Q The treatment technology identified above is a past practice that has been demonstrated to meaningfully reduce the toxicity and/or mobility of the waste.

Additional Comments:

"SOFT-HAMMER WASTES RESTRICTED AS OF GUST 8, 1988 LAND DISPOSAL RESTRICTION NOTIFICATION AND CERTIFICATION FORM FIRST-THIRD WASTES FOR WHICH NO TREATMENT STANDARDS HAVE BEEN SET

Generator Name: BASF Corp. SolidTek Profile Number: 0127-02
EPA ID Number: MID 064/9 7742 Manifest Number: 12835
This form is submitted to SolidTek Systems, Inc., in accordance with 40 CFR Part 268, which restricts the land disposal of certain hazardous wastes. I have marked the appropriate box below to indicate whether alternative treatment has been found for my waste. (See reverse side for the list of "soft-hammer" wastes and instructions for using this form.)
A. SOFT-HAMMER WASTE FOR WHICH ALTERNATIVE TREATMENT OR RECOVERY HAS BEEN LOCATED
The soft-hammer waste(s) I generate is (are) <u>Toluene Diisocyanate (U223)</u> . I have identified a practically available treatment technology that is the most environmentally beneficial while still meeting the criteria for being practical. Accompanying the initial shipment of waste represented by this form, I submitted a demonstration in accordance with 40 CFR 268.8 (a) (1), including a list of facilities and facility officials contacted, complete with addresses, telephone numbers, and contact dates, and a justification that I have chosen the best treatment that is practically available.
"I certify under the penalty of law that the requirements of 40 CFR 268.8 (a) (1) have been met and that I have contracted to treat my waste (or will otherwise provide treatment) by the practically available technology which yields the greatest environmental benefit, as indicated in my demonstration. I believe that the information submitted is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."
B. SOFT-HAMMER WASTE FOR WHICH DISPOSAL IN LANDFILL OR SURFACE IMPOUNDMENT IS THE ONLY PRACTICAL ALTERNATIVE TO TREATMENT CURRENTLY AVAILABLE
The soft-hammer waste(s) I generate or have treated is (are) good-faith effort to locate and contract with treatment and/or recovery facilities currently available which can meaningfully reduce the toxicity or mobility of hazardous constituents in the waste, as an alternative to land disposal. I have found no such alternative facility. Accompanying the initial shipment of waste represented by this form, I submitted a demonstration in accordance with 40 CFR 268.8 (a) (2), including a list of facilities and facility officials contacted, addresses, telephone numbers, contact dates and an explanation of why no treatment is practically available. This soft-hammer waste must be disposed of in landfill or available impoundment meeting the minimum technological requirements until treatment standards are set for the waste or May 8, 1990 whichever occurs first.
"I certify under penalty of law that the requirements of 40 CFR 268.8 (a) (1) have been met and that disposal in a landfill or surface impoundment is the only practical alternative to treatment currently available. I believe that the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting faise informations, including the possibility of fine and imprisonment."
C. SOFT-HAMMER WASTE HAS BEEN TREATED BY TREATMENT OR RECOVERY FACILITY
The following waste(s) has been treated in accordance with the generator's demonstration:
"I certify under the penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been maintained properly so as to comply with treatment as specified in the generator's demonstration. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."
D. SOFT-HAMMER WASTE DESTINED FOR LAND DISPOSAL OTHER THAN IN LANDFILL OR SURFACE IMPOUNDMENT (e.g. DEEP INJECTION WELL) OR SUBJECT TO A TWO YEAR VARIANCE
The soft-hammer waste(s) I generate is (are) This waste is being disposed of in a land disposal unit other than a landfill or surface impoundment and therefore is not subject to the certification and demonstration requirements of Section "B".
I hereby certify that all information submitted in this and all associated documents is complete and accurate to the best of my knowledge and information.

Signature

List of "Soft-Hammer" Wastes Under First-Third (8/8/88)

(See 40 CFR Part 261 For More Information on these Wastes)

F006-(Wastewater)	K083-(Except no	P020	P110	U 053	U159
F007	ash sub-	P030	P115	U061	U171
F008	category)	P036	P120	U063	บเ <i>7</i> 7
F009	K084	P037	P122-when present	U064	U180
F019	K085	P039	at concentrations	U066	U185
K004-(Wastewater)	K086-(Solvent sludge,	P041	greater than 10%	U067	U188
K008-(Wastewater)	caustic water wash	P048	P123	U074	U192
K011	and sludge sub-	P050		U077	U200
K013	category)	P058	U007	U078	U209
K014	K101-(High arsenic	P059	U009	U086	U210
K017	subcategory	P063	U010	U089	U211
K021-(Wastewater)	greater than 1%)	P068	U012	U103	U219
K022-(Wastewater)	K103-(High arsenic	P069	U016	U105	U220
,	subcategory	P070	U018	U108	
K031	greater then 1%)	P071	U019	U115	U221
K035	5 .000 0.01 1.07	P081	U022	U122	U223
K036-(Wastewater)	K106	P082	U029	U124	U226
K046-(Explosive Non-		P084	U031	U129	U227
Wastewaters)	P001	P087	U036	U130	U228
K060-(Wastewater)	P004	P089	U037	U133	U237
K061-(Wastewater)	P005	P092	U041	U134	U238
K069-(Calcium	P010	P094	U043	U137	U248-when present
sulfate sub-	P011	P097	U044	U151	at concentrations
category)	P012	P102	U046	U154	0.3% or less
K069-(Wastewater)	P015	P105	U050	U155	U249-when present
K073	P016	P108	U051	U157	at concentrations
	P018			U158	10% or less

BACKGROUND INFORMATION REGARDING "SOFT-HAMMER" WASTES

If EPA fails to set treatment standards by the statutory deadline for any hazardous wastes in the first or second-third of the schedule, those wastes become "soft-hammer" wastes and several requirements must be met prior to disposal in a landfill or surface impoundment:

- 1) A demonstration must be made to the Regional Administrator of EPA that no practical and available treatment could be found for the waste, or treatment has been found which provides the greatest environmental benefit that is practically available.
- 2) The demonstration must include the names, addresses and teleiphone numbers of treatment facilities contacted, the names of facility officials contacted, and the contact dates.
- 3) A copy of the demonstration and all supporting documents must accompany the initial shipment of the waste to the facility chosen in the demonstration.
- 4) A certification (such as those on the front side of this form) must be completed and sent to the Regional Administrator along with the demonstration. The certification must accompany every shipment to the facility chosen in the demonstration.

EPA will make the final judgement of what is practical based on the demonstration submitted. However, EPA makes it clear that if a waste has been treated in the past, at least that level of treatment is considered to be practical.

EPA has provided a generic heirarchy of preferred treatment methods for selected wastes in the Federal Register (FR 53, 159, pgs. 31175 & 31176, August 17, 1988). Additionally EPA favors recovery/recycling facilities as the best method, followed by destruction technologies such as incineration (especially for organics), and then stabilization where recycling or destruction is unavailable or inappropriate (especially for inorganics).

INSTRUCTIONS FOR COMPLETING THIS FORM

MARK BOX A on the front of this form if you generate (or have treated) one of the hazardous wastes listed above, and you have located a treatment or recovery process which yields the greatest environmental benefit.

MARK BOX B if you generate one of the hazardous wastes listed above, but have been unable to locate an alternative treatment to land disposal. NOTE: If this waste is disposed in a landfill or surface impoundment, the unit must meet minimum technological requirements (i.e. a double liner, leachate collection system and groundwater monitoring).

MARK BOX C if you have treated the soft-hammer waste in accordance with the demonstration submitted by the generator.

MARK BOX D if your soft-hammer waste is being land disposed in a unit other than a landfill or surface impoundment. The certification and demonstration requirements do not apply until treatment standards for deep well injection are set, or May \$, 1990, whichever comes first. Currently, the only requirement is that the facility be notified that the ste is a soft-hammer waste (Except K048, K049, K050, K051, K052, K062, and K071, which are subject to a two year variance).

NOTE: All treatment and storage facilities which receive a demonstration and certification accompanying a "soft-hammer" waste shipment must keep copies in the operating record for 5 years and forward the originals with the shipment to a treatment/disposal facility.

[&]quot;Treatment is defined as processing which reduces the toxicity of the waste or the likelihood of migration of hazardous constituents from the waste. "Practically available treatment" is treatment which is accessible to the generator for a cost ratio set by EPA. The cost ratio that is practical is: and treatment which is accessible to the generator for a cost ratio set by EPA.

EPA ID#	MID064197742					
	1609 Biddle Ave					
	Wyandotte, MI 48192					
To: Regi	ional Administrator U.S.	E.P.A.				
	Mr. Valdas V. Adamkus					
	Region V U.S. E.P.A.	•				
	230 S. Dearborn Street					
	Chicago, II, 60604					
Re: Soft	t Hammer Demonstration/Ce	rtification				
		ental Protection Agency's land				
		he first third schedule wastes,				
		monstration and certification as				
per CFR 1	168.8(a)(2) for the waste	stream described by:				
US EPA Ha	azardous Waste Code(s):	U221				
SolidTek	profile number:	0127 - 02				
Common Na	ame:	Toluene Diamine				
The demo	netration reflects our	efforts to locate practically				
ine demo availabl	e treatment that affor	ds the greatest environmental				
benefit.	Based on our search for	such treatment, we have deter-				
	at (check one):	• • • • • • • • • • • • • • • • • • • •				
1)	No practically avai	lable treatment exists, See				
		ion, attachments 2 and 3, for				
	further details.	, accasiments 2 and 3, 101				
v 21	. The best practically	available treatment is: _ p				
		numbers(s) from the attachment				
	4). See the attached demonstration, attachments 2,3,					
	and 4 for further det					
If any	further information is r	equired, please contact me at:				
(313) 24	<u>46 - 6429</u> (te	lephone number).				
Jyman/	Mendean	(Signature)				
Lyman A	. Anderson	(Type or Printed Name)				
Ecology	Supervisor	(Title)				
10/12/89	8	(Date)				

SOFT HAMMER DEMONSTRATION - ATTACHMENT 2

_FAC11	LITY UNDER/OPERATOR LOCATION	TREATMENT MET	TELEPHONE	CONTACT	DATE	EXPLAN	<u>* N(</u>
1.	SolidTek Systems, Inc. 5371 Cook Road Morrow, GA 30260	Fuels Blending and Incineration	(419) 874-81	44 Jeff Huskisso	on 10/12	2/88	D
2.							
3.							
4.							<u> </u>

^{* -} EXPLANATION - for no available treatment - insert the number key from Attachment 3.

for available treatment - insert the letter key from Attachment 4.

ATTACHMENT 3

FIRST THIRD "SOFT-HAMMER" DEMONSTRATION No Available Practical Alternative to Land Disposal

Explanation Of Why No Treatment Is Practically Available

(1)	No recovery facilities have been located which will be able to recover the hazardous constituents of this waste.
(2)	There is no safe and legal treatment or recovery operation which I can perform practically at my site that will appreciably reduce the toxicity or mobility of the hazardous constituents of the waste.
(3)	I have not been treating this waste at my site in the past, using a treatment technology which has been found to appreciably reduce the toxicity or mobility or mobility of the hazardous constituents of the waste.
(4)	Stabilization treatment will not appreciably reduce the toxicity or mobility of the hazardous constituents of this waste.
.5)	Incineration, thermal oxidation or other destruction technologies will not appreciably reduce the toxicity or mobility of the hazardous constituents of the waste.
(6)	I have examined the possibilities of recovery/recycling, incineration, other destruction technologies, and stabilization, in that order or preference, I have not been able to locate any such treatment facilities that will accept this waste.
(7)	The cost of treatment, shipment and disposal at the treatment/recovery facilities that have been located is greater than or equal to twice the cost of shipment and disposal at the RCRA landfill.

Additional Comments:

(8) ____

ATTACHMENT 4

FIRST THIRD "SOFT-HAMMER DEMONSTRALLON

Soft-Hammer Waste For Which Alternative Treatment or Recovery Has Been Located

Rotary Kiln Incineration is a practically available technology that yields the A greatest environmental benefit. This waste is principally organic residues which are best destroyed by incineration. Liquid Injection Incineration is a practically available technology that yields В the greatest environmental benefit. This waste is principally pumpable organic residues which are best destroyed by incineration. Fuels Blending is a practically available technology that yields the greatest C environmental benefit. This waste has a heating value greater than or equal to 5,000 BTU per pound and can be best reused as a hazardous waste fuel. A combination of Fuels Blending, and/or Rotary Kiln or Liquid Injection D is a practically available technology that yields the greatest environmental benefit. This is due to the properties of my waste which may vary slightly, from one load to the next. Solid nondispersible residues will need to be incinerated: but the pumpable or dispersible portions may be blended for hazardous waste fuels usage (when the BTU's, chlorine, ash, etc. are within the required ranges); or else incinerated. Ε Chemical Precipitation (with filtration or decanting) is a practically available technology that yields the greatest environmental benefit. This should reduce the toxicity/mobility of the hazardous constituents by reducing the toxic volume of the waste. F Filtration is a practically available technology that yields the greatest environmental benefit. This should reduce the toxicity/mobility of the hazardous constituents by reducing the toxic volumes of the waste. G_ Stabilization is a practically available technology that yields the greatest environmental benefit. Stabilization will reduce the mobility of the hazardous constituents of the waste. I have examined recovery and destruction technologies and found that they were not practically available for the following reason(s): Chemical oxidation is a practically available technology that yields the greatest H environmental benefit. Chemical oxidation will reduce the toxicity of hazardous constituents in the waste. This waste is not suitable for incineration or fuels due to: the low percentage of hazardous organic constitutents presents, the low heating value of the waste, the high percentage of inorganic constituents present, the lack of located available capacity of incineration or fuels blending facilities. This waste is not suitable for recovery due to: The hazardous constituents are present in concentations that make recovery M technologically impossible. The hazardous constituents are present in concentrations that make recovery economically infeasible. No recovery facilities were located that could treat this type of waste. No recovery facilities were located that had capacity to treat this type of waste. The treatment technology identified above is a past practice that has been demonstrated to meaningfully reduce the toxicity and/or mobility of the waste.

Additional Comments:

Generator Name: BASF Corp SolidTek Profile Number: 0127-36
Generator Name: BASF Corp SolidTek Profile Number: 0 / 27 - 36 EPA ID Number: MID 0 6 4197742 Manifest Number: 12834
This form is submitted to SolidTek Systems, Inc., in accordance with 40 CFR Part 268, which restricts the land disposal of certain hazardous wastes. I have marked the appropriate box below to indicate whether alternative treatment has been found for my waste. (See reverse side for the list of "soft-hammer" wastes and instructions for using this form.)
A. SOFT-HAMMER WASTE FOR WHICH ALTERNATIVE TREATMENT OR RECOVERY HAS BEEN LOCATED
The soft-hammer waste(s) I generate is (are)
"I certify under the penalty of law that the requirements of 40 CFR 268.8 (a) (1) have been met and that I have contracted to treat my waste (or will otherwise provide treatment) by the practically available technology which yields the greatest environmental benefit, as indicated in my demonstration. I believe that the information submitted is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."
B. SOFT-HAMMER WASTE FOR WHICH DISPOSAL IN LANDFILL OR SURFACE IMPOUNDMENT IS THE ONLY PRACTICAL ALTERNATIVE TO TREATMENT CURRENTLY AVAILABLE
The soft-hammer waste(s) I generate or have treated is (are) good-faith effort to locate and contract with treatment and/or recovery facilities currently available which can meaningfully reduce the toxicity or mobility of hazardous constituents in the waste, as an alternative to land disposal. I have found no such alternative facility. Accompanying the initial shipment of waste represented by this form, I submitted a demonstration in accordance with 40 CFR 268.8 (a) (2), including a list of facilities and facility officials contacted, addresses, telephone numbers, contact dates and an explanation of why no treatment is practically available. This soft-hammer waste must be disposed of in landfill or available impoundment meeting the minimum technological requirements until treatment standards are set for the waste or May 8, 1990 whichever occurs first.
"I certify under penalty of law that the requirements of 40 CFR 268.8 (a) (1) have been met and that disposal in a landfill or surface impoundment is the only practical alternative to treatment currently available. I believe that the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false informations, including the possibility of fine and imprisonment."
C. SOFT-HAMMER WASTE HAS BEEN TREATED BY TREATMENT OR RECOVERY FACILITY
The following waste(s) has been treated in accordance with the generator's demonstration: "I certify under the penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been maintained properly so as to comply with treatment as specified in the generator's demonstration. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."
D. SOFT-HAMMER WASTE DESTINED FOR LAND DISPOSAL OTHER THAN IN LANDFILL OR SURFACE IMPOUNDMENT (e.g. DEEP INJECTION WELL) OR SUBJECT TO A TWO YEAR VARIANCE
The soft-hammer waste(s) I generate is (are) This waste is being disposed of in a land disposal unit other than a landfill or surface impoundment and therefore is not subject to the certification and demonstration requirements of Section "B".
I hereby certify that all information submitted in this and all associated documents is complete and accurate to the best of my knowledge and information.

Signature

BASF Corporation Chemicals Division

OFFICE OF RCRA

WASTE MANAGEMENT DIVISION EPA, REGION V

CERTIFIED MAIL # P 716 263 322 RETURN RECEIPT REQUESTED

Date:

August 24, 1989

To:

Regional Administrator

Address:

230 South Dearborn

Chicago, IL 60604

RE:

Soft Hammer Demonstration/Certification for

materials destined for CWM Chemical Services

In accordance with the Environmental Protection Agency's land disposal restrictions governing the scheduled waste BASF Corporation has enclosed a Soft Hammer Demonstration and Certification as per 40CFR 268.8 (a) (1) for CWM profile E-69667 bearing EPA waste code(s) <u>U-073</u>. This demonstration (see attached) has been prepared following communication with Chemical Waste Management and reflects our efforts to locate practically available treatment which affords the greatest environmental benefit. We believe that the information submitted is true, accurate and complete. Based on this information we have determined that incineration is the best practically available treatment.

If any further information is required, please contact me at 616-392-2391.

Sincerely,

"SOFT HAMMER" WASTES*

LAND DISPOSAL	RESTRI	CTION NOT	FICATION AND C	ERTIFIC	ATION F	ORM
Generator Name:	BASF	CORP	Manifest Nu	mber:/	2 313 1902	<u>-</u>
EPA Hazardous Waste C	lodes ¹ :	0-073	CWM Profile Nu	mber:E	-69667	
This form is submitted to	have marked the list of soft-b	e appropriate box be	n accordance with 40 CFR Pa flow to indicate whether aften instructions on using this fort	native treatme	restricts the United that the Court of the C	d disposat ad for my
BEEN L	OCATED		CHALTERNATIVE TRE		,	
The soft-bammer watte I generate treatment technology that yield I submitted a demonstration to officials contacted, complete wattreatment that is practically averaged.	the Reponal A vith addresses.	dministrator in acros	tisace with 40 CFR 268.8(a)(1), including a	list of facilities a	and facility
"I certify under penalty of law otherwise provide treatment) is demonstration. I believe that (for submitting false information	y the practically the information	y available technolog submitted is true, ac	y which yields the greatest en xurate, and complete. I am a	listanmonive	senelit, as indica	ued in my
IMPOU		IS THE ONLY	VHICH DISPOSAL IP Y PRACTICAL ALTE			
The soft-hammer waste(s) I get effort to locate and contract v mobility of hazardous constitu- with the initial shipment of wa- a list of facilities and facility of is practically available. Thus technological standards until to	vith treament is ents in the wass sie represented Micials contacte soft-hammet w	and recovery facilities te, as an alternative to by this form, I subm and, addresses, telepho- mets must be dispose	to land disposal. I have four- titled a demonstration in acco one numbers, contact dates, a sed of in a landfill of surface	d no such also ordanes with 4 and an explana s impoundme	relative facility, O CFR 268.8(a), Ition of why ap at meeting the	Together including treatment
"I certify under penalty of law impoundment is the only pract and complete. I am aware the imprisonment."	ical alternative i	to treatment current	y available. I believe that the	information s	ubmitted is true.	accurate.
			ILITY HAS TREATED		TE	
The following soft-hammer wa	ate(s) was treat	ted in accordance wi	a the generator's demonstrati	ion:	·	
I certify under penalty of le- treatment process used to su- obtaining this information, I be as specified in the generator's the possibility of fine and imp	pport this certificate the the demonstration.	ficacion and that, ba	sed on my inquiry of those in been operated and maintained	individuals im property so a	mediately respo	nuible for treatment
			d for land disposa 4. Deep injection v		THAN IN LAP	4DFILL
The soft-hammer waste(s) I g in a land disposal unit other to requirement described above	han a landfill or	r surface impoundme		t to the certif		polifica
Signature Rums (Louise	1 Title	Sovernmental Affair	रजेक्सक्रात्र	Date <u>X 24</u>	187 -
		(

COPYRIGHT. NOVEMBER 1988 - WASTES FOR WHICH NO TREATMENT STANDARDS HAVE BEEN SET JUNE 1989

List all EPA Waste Codes present in this shipment of waste. Attach separate sheet, listing waste codes if necessary,